

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-6. (canceled)

7. (new) A network device to connect to a digital subscriber line (DSL), the network device comprising:

a voice media gateway (VMG) to terminate multiplexed voice data received via the DSL.

8. (new) The network device of claim 7, wherein the VMG comprises:

a terminating unit to directly terminate the multiplexed voice data.

9. (new) The network device of claim 7, further comprising:

a first processing unit to divide the terminated multiplexed voice data into a voice signal and a call control signal;

a second processing unit to convert the call control signal into network device control data;

a signaling gateway controller to convert the network device control data into data in a control interface format;

a digital signal processor to convert the voice signal into voice packets; and

a multiplexer for multiplexing the voice packets and the data in the control interface format.

10. (new) The network device of claim 7, wherein the VMG further comprises:
a processing unit to divide the terminated multiplexed voice data into a voice signal
and a call control signal;
a digital signal processor to convert the voice signal into voice packets; and
a multiplexer for multiplexing the voice packets and the call control signal.

11. (new) The network device of claim 10, wherein the digital signal processor is
configured to convert the voice signal from a 32k to a 64k adaptive differential pulse code
modulation.

12. (new) The network device of claim 10, further comprising:
a control device interface; and
a control unit to receive the multiplexed voice packets and the multiplexed control
signal via the control device interface.

13. (new) A voice over digital subscriber line (VoDSL) communication system
comprising:
means for extracting voice data from a received VoDSL signal;
means for dividing the extracted voice data into a voice signal and a call control signal;
means for processing the voice signal into voice packets;
means for converting the call control signal into control data;
means for converting the control data into data in a control interface format;

means for selectively multiplexing and demultiplexing the data in the control interface format and the voice packets for transfer to a control unit via a control unit interface.

14. (new) An exchange device comprising:

logic to:

receive multiplexed voice data from an integrated access device via a digital subscriber line (DSL); and

directly terminate the received multiplexed voice data.

15. (new) The exchange device of claim 14, wherein the logic is further configured

to:

divide the terminated multiplexed data into parts including a voice signal and a call control signal.

16. (new) The exchange device of claim 15, wherein the logic is further configured

to:

convert the voice signal into modulated data.

17. (new) The exchange device of claim 16, wherein the logic is further configured

to:

selectively multiplex and demultiplex the modulated data.

18. (new) The exchange device of claim 15, wherein the logic is further configured to:

convert the call control signal into exchange device control data.

19. (new) The exchange device of claim 18, wherein the logic is further configured to:

selectively multiplex and demultiplex the exchange device control data.

20. (new) The exchange device of claim 14, wherein the logic is further configured to:

convert the terminated multiplexed voice data based on a control device interface associated with the exchange device.

21. (new) A method comprising:

receiving voice data via a digital subscriber line; and

terminating the received voice data using a voice media gateway (VMG).

22. (new) The method of claim 21, wherein the terminating the received voice data comprises:

dividing the received voice data into components including a voice signal and a call control signal;

processing of the voice signal into voice packets;

converting the call control signal into control data in a control interface format; and

selectively multiplexing and demultiplexing the control data and the voice packets.

23. (new) The method of claim 21, wherein the digital signal processing comprises:
converting the received voice signal from 32k to 64k adaptive differential pulse code modulation.

24. (new) The method of claim 21, wherein the terminating the received voice data comprises:
directly terminating the received voice data using a DSL•IF terminating unit.

25. (new) The method of claim 22, further comprising:
transferring the multiplexed control data and voice packets to a control unit via a control unit interface.